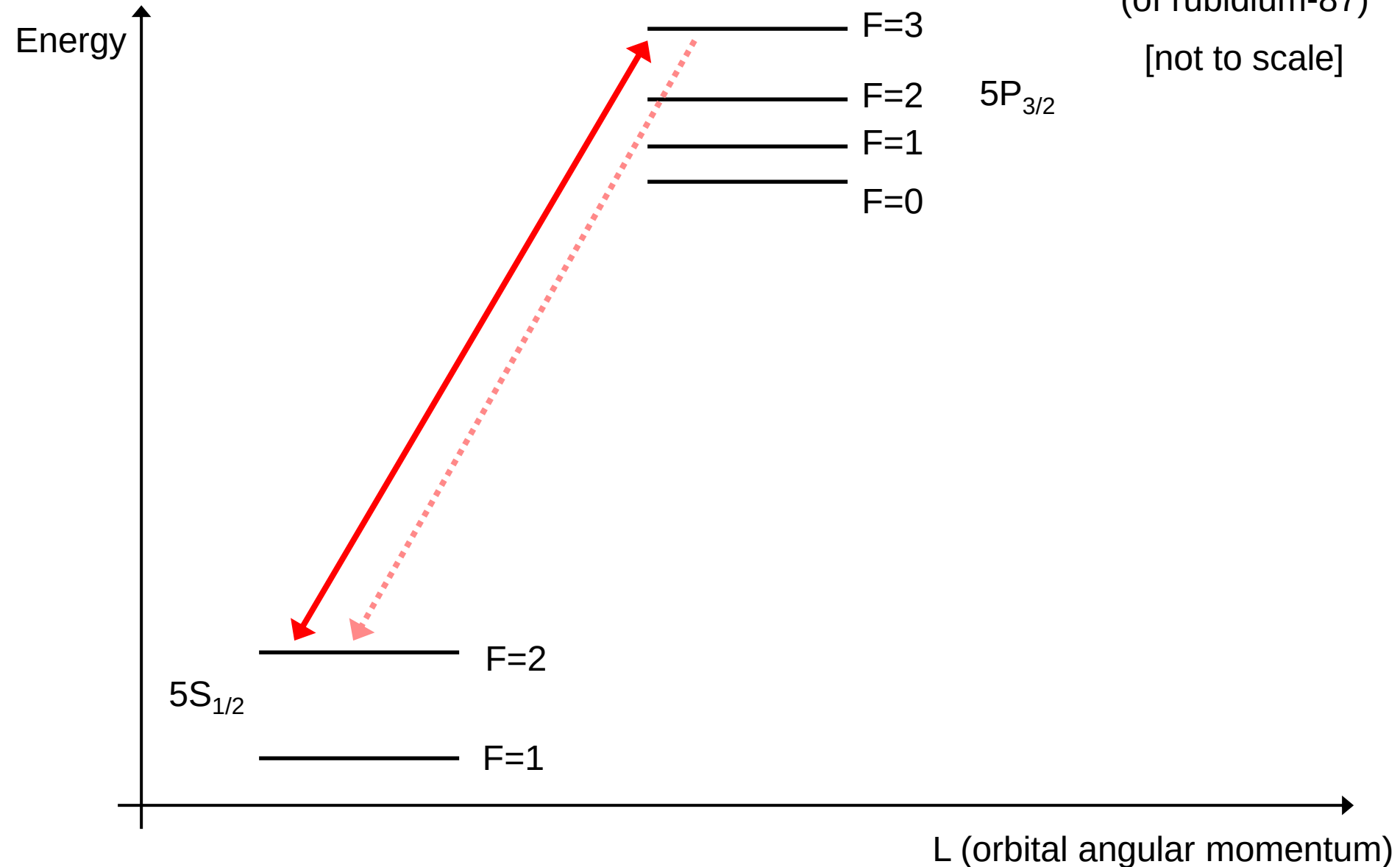


Why are Alkalies “2-level atoms” ?

(of rubidium-87)

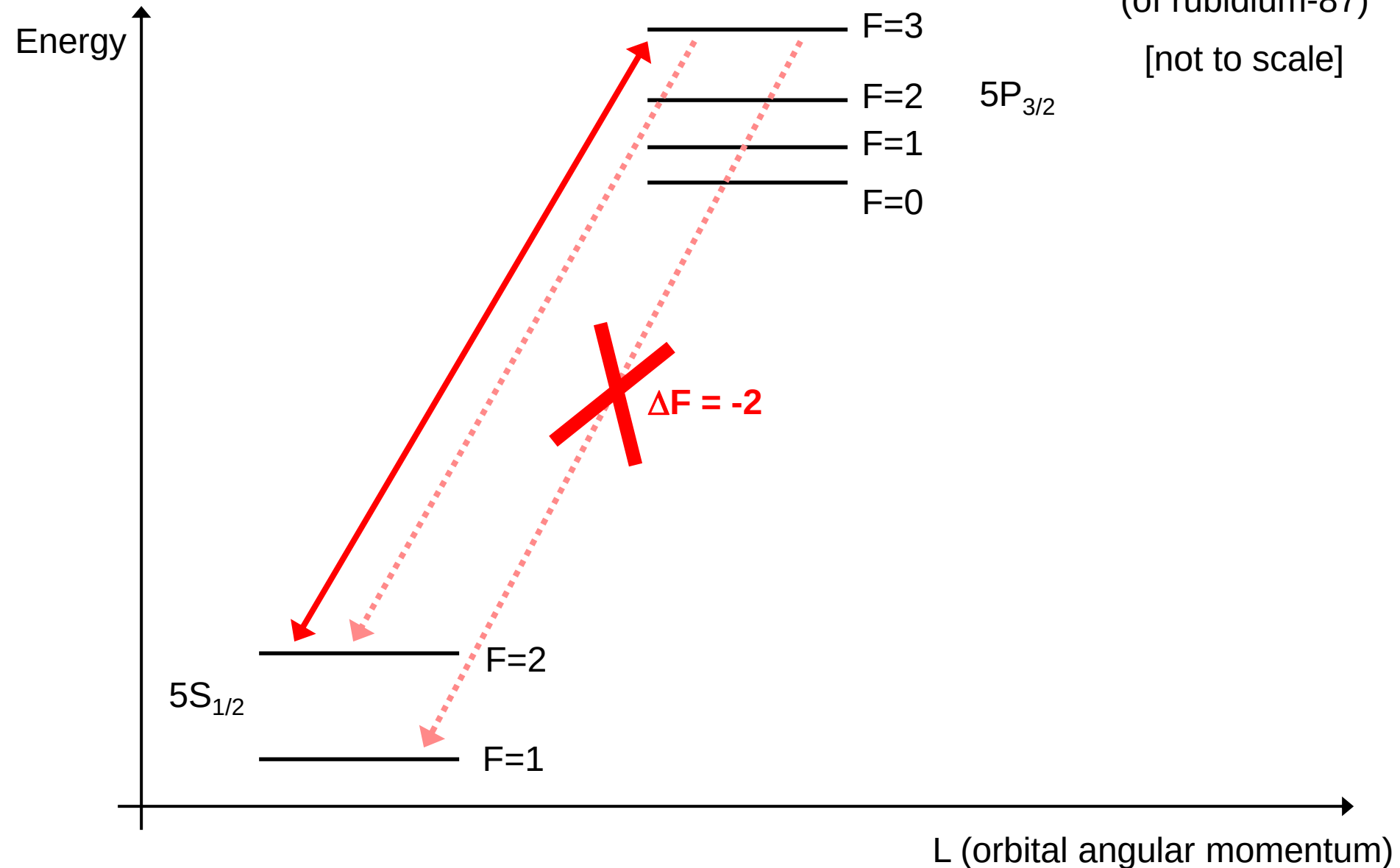
[not to scale]



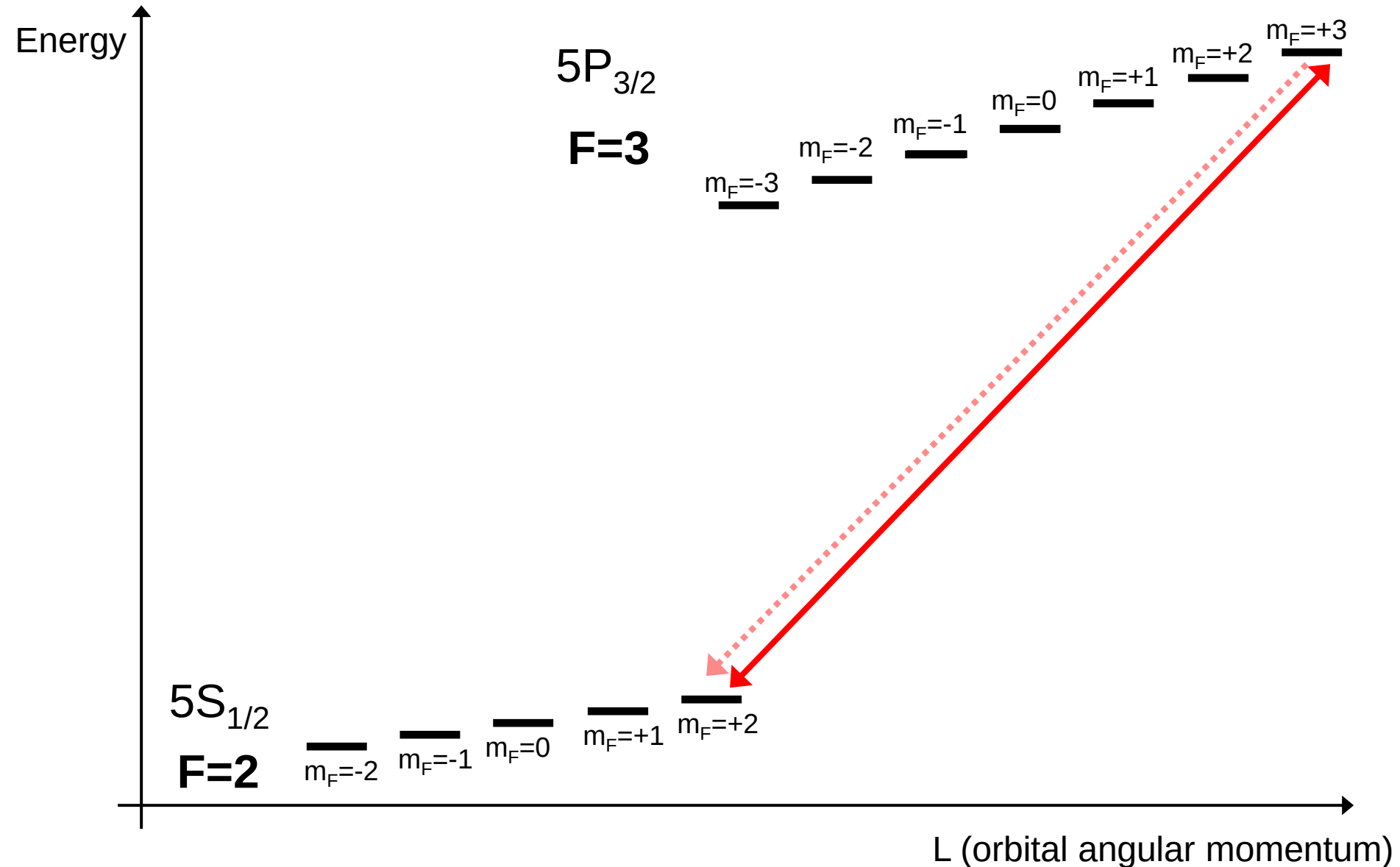
Why are Alkalies “2-level atoms” ?

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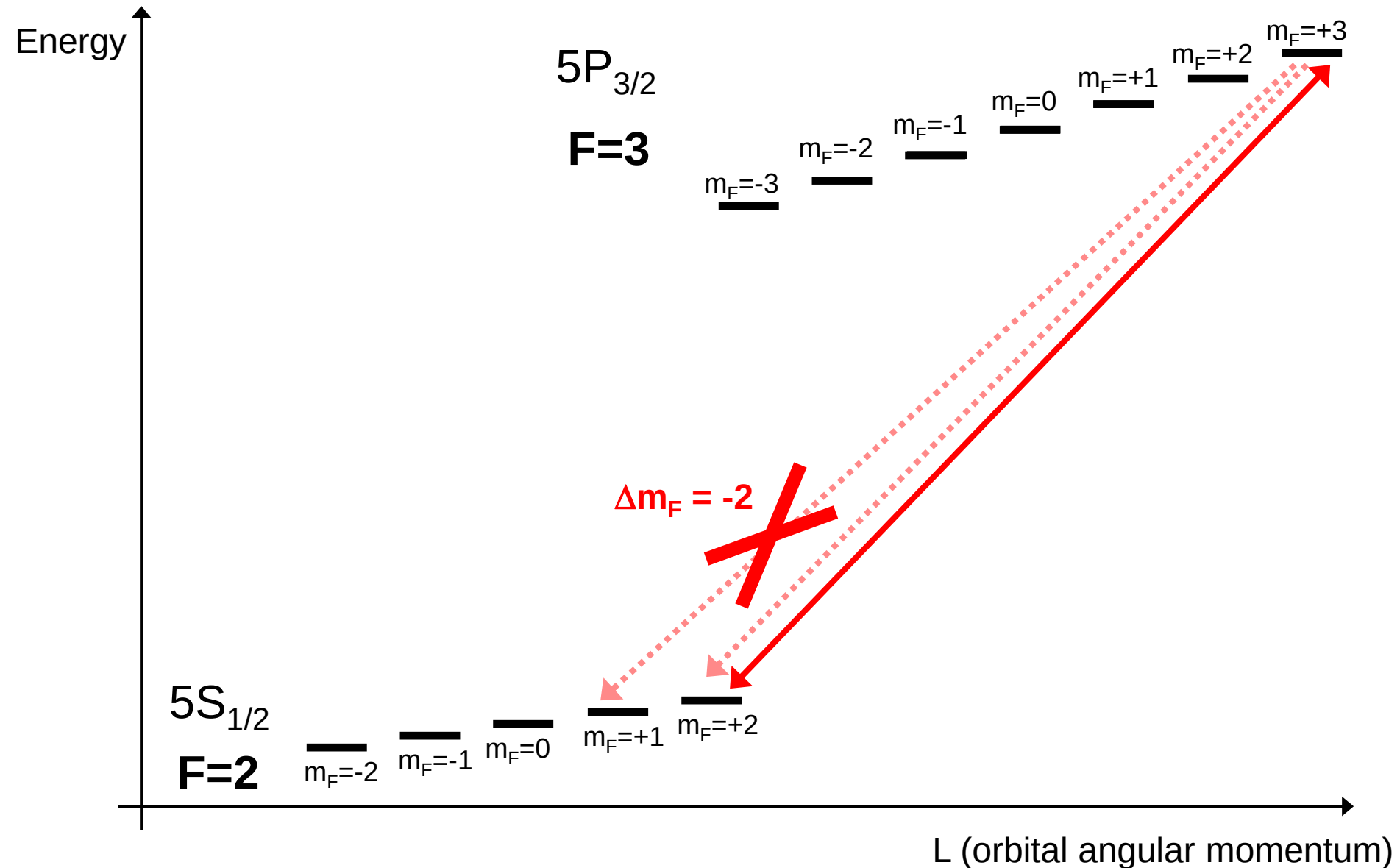
[not to scale]



The D2 line Cycling Transition



The D2 line Cycling Transition



D2-line (780 nm) ⁸⁷Rb D1-line (795 nm)

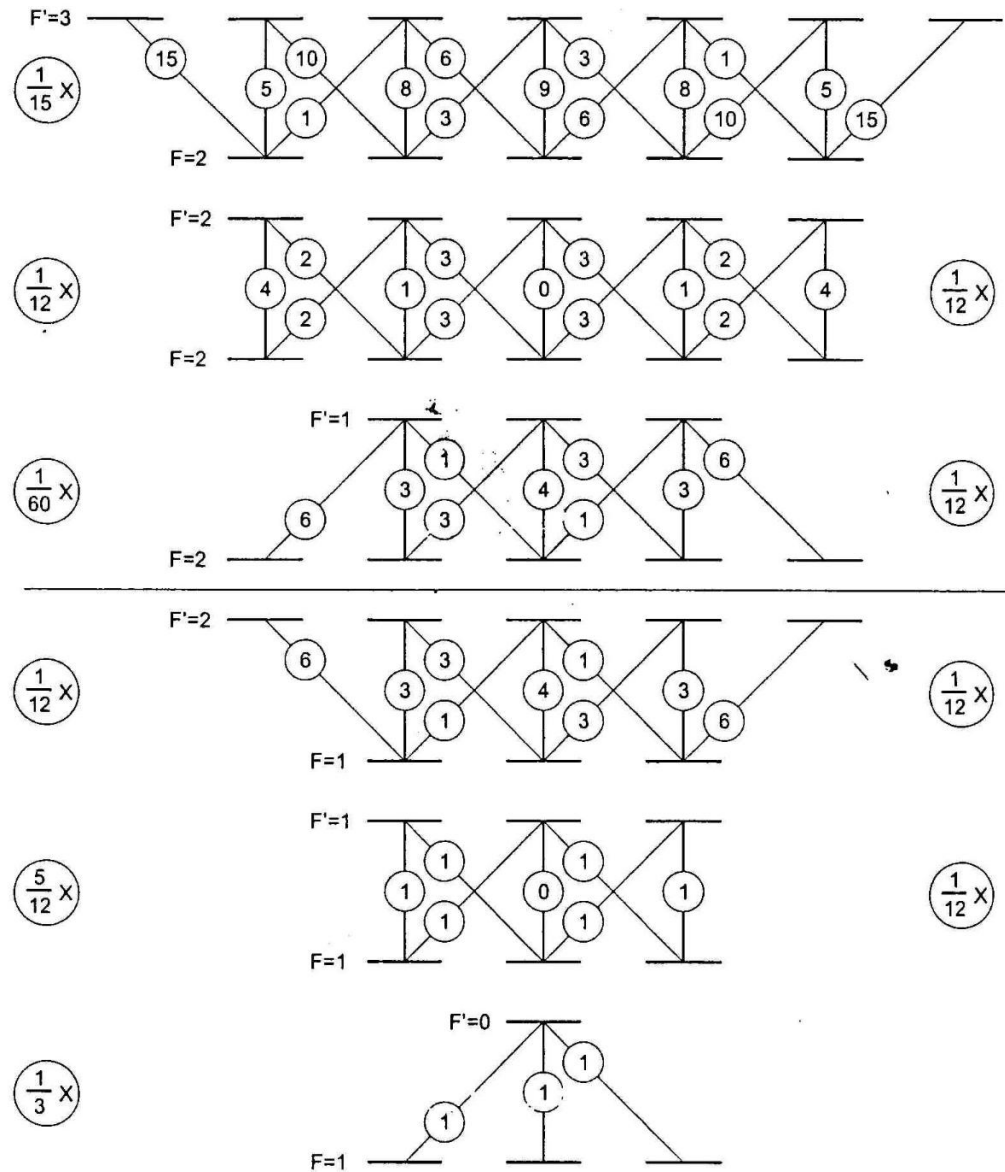


Figure A.2: Branching ratios for ⁸⁷Rb. Multiply by the circled number in the left(right) column to get the branching ratio for the D2(D1) line.